

Title (en)

POWER SUPPLY REGULATION AND PROTECTION CIRCUIT FOR AUDIO POWER AMPLIFIER

Title (de)

STROMVERSORGUNGSREGULIERUNGS - UND SCHUTZSCHALTUNG FÜR EINEN AUDIO-LEISTUNGSVERSTÄRKER

Title (fr)

REGULATION D'ALIMENTATION ET CIRCUIT DE PROTECTION POUR AMPLIFICATEUR DE PUISSANCE AUDIO

Publication

**EP 1433236 A4 20050105 (EN)**

Application

**EP 02763687 A 20020923**

Priority

- US 0230044 W 20020923
- US 32624501 P 20011001
- US 11716402 A 20020405

Abstract (en)

[origin: US2003062953A1] An audio power amplifier including a rail voltage detection circuit connected to a feedback generator and a rail voltage, the detection circuit is adapted to detect an overvoltage or undervoltage condition and control the feedback signal to a regulated switching power supply to adjust the rail voltage. Additional protection is provided through thermal stress detection and output fault detection to control the feedback signal and protect the audio power amplifier.

IPC 1-7

**H02H 7/20**; **H02M 3/335**; **H03F 1/52**; **H03F 1/02**; **H03F 1/30**

IPC 8 full level

**H03F 1/52** (2006.01); **H03F 3/183** (2006.01); **H03F 3/21** (2006.01)

CPC (source: EP US)

**H03F 1/52** (2013.01 - EP US); **H03F 2200/426** (2013.01 - EP US)

Citation (search report)

- [A] EP 0458071 A1 19911127 - E SYSTEMS INC [US]
- [A] US 4131860 A 19781226 - FYOT JEAN-JACQUES
- [A] US 5859757 A 19990112 - HANAFUSA KOICHI [JP], et al
- See references of WO 03030328A1

Designated contracting state (EPC)

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DOCDB simple family (publication)

**US 2003062953 A1 20030403**; **US 6611169 B2 20030826**; EP 1433236 A1 20040630; EP 1433236 A4 20050105; JP 2005505964 A 20050224; WO 03030328 A1 20030410

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